

CLAIM SUMMARY DOCUMENT

The following listing of claims will replace all prior versions and listings of claims in this application.

1. (Canceled)

2. (Currently Amended) A door lock system for a vehicle comprising:

a latch mechanism adapted to a vehicle door and latching the vehicle door to a vehicle body;

a link mechanism including an electric driving source, and a plurality of lever members for selectively locking and unlocking the latch mechanism;

a housing accommodating the link mechanism, including the electric driving source, and the latch mechanism;

an insertion groove into which a striker is movable to be received by a portion of the latch mechanism to latch the vehicle door to the vehicle body;

the electric driving source being accommodated in an upper portion of the housing so that the entire electric driving source is above the insertion groove; the housing including a first cover, a second cover and a main body having a first dish-shaped casing portion and a second dish-shaped casing portion, the first casing portion including an opening, closed by the first cover, at one side thereof, the second casing portion connected to the first casing portion and perpendicular to each other, the second casing portion including an opening, closed by the second cover, at one side thereof;

a first space between the first cover and the first casing portion, with the electric driving source disposed within the first space;

the latch mechanism being supported by the second cover; and

each of the lever members of the link mechanism being disposed within at least one of a) a the first space defined between the first casing portion and the first cover and b) a second space defined between the second casing portion and the second cover.

3. (Original) A door lock system for a vehicle according to claim 2, wherein the part of the lever members and the electric driving source of the link mechanism are supported by the first casing portion and the first cover, and the other lever members of the link mechanism are supported by a base plate disposed between the second casing portion and the second cover.

4. (Previously Presented) A door lock system for a vehicle according to claim 3, wherein

one of the lever members of the link mechanism includes an open link coupled to the electric driving source to selectively lock and unlock engagement of the latch mechanism; and

another of the lever members includes a lifting lever coupled to the latch mechanism for being engagable and disengagable with the open link.

5. (Canceled)

6. (Previously Presented) A door lock system for a vehicle according to claim 2, wherein the first casing portion and the second casing portion are integrally formed with one another.

7. (Previously Presented) A door lock system for a vehicle according to claim 2, wherein the latch mechanism is accommodated in a space between the second cover and a base plate that is secured to an open end of the second cover.

8. (Currently Amended) A door lock system for a vehicle comprising:
a housing comprised of a main body, a first cover and a second cover, the main body comprising a first casing portion and a second casing portion, the first casing portion having an open end closed by the first cover with a first space between the first cover and the first casing portion, the second casing portion having an open end closed by the second cover with a second space between the second cover and the second casing portion, the first and second casing portions being connected to each other and being oriented relative to one another such that the open end of the first casing portion and the open end of the second casing portion face in directions perpendicular to one another;

a latch mechanism adapted to latch a vehicle door to a vehicle body, the latch mechanism being accommodated in the housing;

an insertion groove into which a striker is movable to be received by a portion of the latch mechanism to latch the vehicle door to the vehicle body;

a link mechanism including an electric driving source and a plurality of lever members for selectively locking and unlocking the latch mechanism, the link

mechanism, including the electric driving source being accommodated in the housing, with each of the lever members being accommodated in either the first space or the second space;

the electric driving source being accommodated in an upper portion of the housing so that the entire electric driving source is above the insertion groove;

the electric driving source being disposed within the first space; and

the latch mechanism being supported by the second cover.

9. (Canceled)

10. (Previously Presented) A door lock system for a vehicle according to claim 8, wherein the first casing portion and the second casing portion are integrally formed with one another.

11. (Previously Presented) A door lock system for a vehicle according to claim 8, wherein the latch mechanism is accommodated in a space between the second cover and a base plate that is secured to an open end of the second cover.

12. (Previously Presented) A door lock system for a vehicle according to claim 2, wherein the insertion groove is provided in a base plate attached to the housing.

13. (Previously Presented) A door lock system for a vehicle according to claim 8, wherein the insertion groove is provided in a base plate attached to the housing.

14. (Previously Presented) A door lock system for a vehicle according to claim 2, including a worm gear extending from the electric driving source.

15. (Previously Presented) A door lock system for a vehicle according to claim 8, including a worm gear extending from the electric driving source.

16. (Previously Presented) A door lock system for a vehicle according to claim 2, wherein the lever members of the link mechanism comprise an open link coupled to the electric driving source to selectively lock and unlock the latch mechanism, the open link being disposed in the first space.

17. (Previously Presented) A door lock system for a vehicle according to claim 16, wherein the open link is coupled to the electric driving source by way of an active link disposed in the first space, the active link being engaged with the electric driving source by virtue of a pin positioned in a slot, the active link also engaging the open link by virtue of a pin positioned in a slot.

18. (Previously Presented) A door lock system for a vehicle according to claim 8, wherein the lever members of the link mechanism comprise an open link

coupled to the electric driving source to selectively lock and unlock the latch mechanism, the open link being disposed in the first space.

19. (Previously Presented) A door lock system for a vehicle according to claim 18, wherein the open link is coupled to the electric driving source by way of an active link disposed in the first space, the active link being engaged with the electric driving source by virtue of a pin positioned in a slot, the active link also engaging the open link by virtue of a pin positioned in a slot.

20. (Canceled)